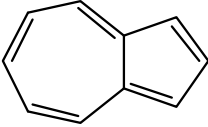
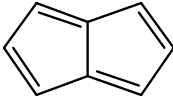
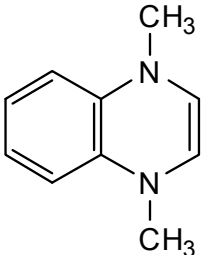
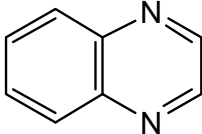
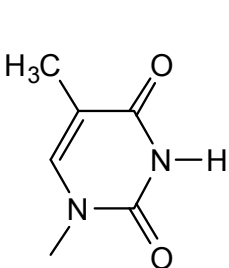
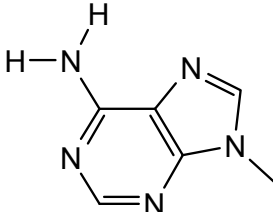
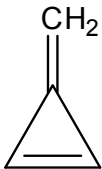
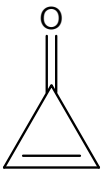


Workshop 4
Aromatic, or Not?

1. For each of the following molecules, circle whether the molecule is aromatic, anti-aromatic, or neither.

<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>			<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>
<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>			<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>
<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>			<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>
<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>			<p>AROMATIC</p> <p>ANTI-AROMATIC</p> <p>NEITHER</p>

2. One of the molecules on the right will react with aqueous HBr just one way, to yield one product, selectively. The other will react with one molecule of aqueous HBr in a variety of ways, to yield a variety of products. Which molecule has which reactivity pattern, and what HBr adducts would you expect from each?

